

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of the claims in the application:

1. (Currently Amended) Process for finishing- machining of bearing positions on main bearing journals and connecting rod bearing journals of crankshafts for motor car engines, whereby the crankshafts have roundings between the bearing positions and the transitions adjacent in each case to the bearing positions, such as for example cheeks of adapting bearings,
wherein
the roundings are deep rolled with a deep rolling tool and then, maintaining a distance interval to the individual transition in each case, and
the bearing position concerned is machined with removal of material with a small cutting depth.
2. (Currently Amended) Process according to Claim 1,
wherein
the rolling-in depth at the deep rolling of the roundings is between 0.1 and 0.5 mm, ~~preferably 0.2 mm.~~
3. (Currently Amended) Process according to Claim 1,
wherein
the cutting depth during the final material-removing machining of the bearing positions amounts to between 0.1 and 0.5 mm, ~~preferably 0.25 mm.~~
4. (Previously presented) Process according to Claim 3,
wherein
machining with removal of material is carried out with unspecified cutting edge by grinding.

5. (Currently Amended) Process according to Claim 4,
wherein
machining is carried out with a grinding wheel which had an edge radius of up to
1 mm, ~~preferably 0.5 mm.~~
6. (Previously presented) Process according to Claim 3,
wherein
working with removal of material takes place with specific cutting edge by
milling, turning, broaching, turn-broaching, or turn-turn-broaching.
7. (Currently Amended) Process according to Claim 1,
wherein
the distance interval between the cheek and the bearing position in each case is
between 0.5 and 5 mm, ~~preferably 1 mm.~~
8. (Withdrawn) Crankshaft with main bearing journals and connecting rod bearing
journals, of which the bearing positions were finish-machined in accordance with
Claim 1,
wherein
it has tangent radii between the transition areas and the individual bearing
positions in each case.